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Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Continuation—400/604,888—  10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 1 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
an		3,960,150		Hussain, et al.	08-01-1976	
		3,981,303		Higuchi, et al.	09-21-1976	
		3,986,510		Higuchi, et al.	10-19-1976	
		3,993,071		Higuchi, et al.	11-23-1976	
		4,076,800		Marsh, et al.	02-28-1978	
		4,193,845		Kaetsu, et al.	03-18-1980	
		4,194,066		Kaetsu, et al.	03-18-1980	
		4,195,129		Fukui, et al.	03-25-1980	
		4,226,938		Yoshida, et al.	10-07-1980	
		4,272,617		Kaetsu, et al.	08-09-1981	
		4,283,325		Berthel, et al.	08-11-1981	
		4,295,762		Slovinsky	10-20-1981	
		4,298,002		Ronel, et al.	11-03-1981	
		4,321,117		Kaetsu, et al.	03-23-1982	
	an		4,329,332		Couvreux, et al.	03-11-1982

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		Office.*	Number*	Kind Code* (If known)				
an		PCT	WO 91/10425		Brown University Research Foundation	07-25-1991		
an		PCT	WO 93/09176		Clover Consolidated, Limited	05-13-1993		
an		PCT	WO 93/17669		Board of Regents, The University of Texas System	09-16-1993		
an		PCT	WO 93/21266		Clover Consolidated, Limited	10-28-1993		
an		EP	0 195 304		The Dow Chemical Company	09-24-1986		
an		JP	1-324743		General Director National Circulatory Disease Hospital	08-12-1991		

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Applicant Number	Continuation of 400/694,836 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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		Number	Kind Code <sup>2</sup> (if known)			
		4,352,883		Lim	10-05-1982	
		4,359,483		Kaatsu, et al.	11-16-1982	
		4,376,059		Davis, et al.	03-08-1983	
		4,391,909		Lim	07-05-1983	
		4,409,331		Lim	10-11-1983	
		4,411,754		Kaatsu, et al.	10-25-1983	
		4,434,150		Azad, et al.	02-28-1984	
		4,450,150		Sidman	05-22-1984	
		4,511,478		Nowinski, et al.	04-16-1985	
		4,526,938		Churchill, et al.	07-02-1985	
		4,563,489		Urst	01-07-1986	
		4,590,068		Berthel, et al.	05-20-1986	
		4,605,622		Hasegawa, et al.	08-12-1986	
		4,637,931		Schmitz	01-20-1987	
		4,647,536		Mosbach, et al.	03-03-1987	

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		Application Number  <div style="font-size: 1.5em; font-family: cursive;">10/607,247</div>	<del>Citation - not considered</del>
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
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am		4,652,443		Yoshida, et al.	03-24-1987	
		4,663,288		Tsang, et al.	05-05-1987	
		4,689,293		Goosen, et al.	08-25-1987	
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		4,745,160		Churchill, et al.	05-17-1988	
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		4,888,413		Domb	12-19-1989	
		4,889,722		Sheffield, et al.	12-26-1989	
		4,913,903		Sudmann, et al.	04-03-1990	

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		Application Number  <div style="font-size: 1.5em; font-family: cursive;">10/607,247</div>	Continuation of 08/684,838 <div style="font-size: 1.5em; font-family: cursive;">10/607,247</div>
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
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		Number	Kind Code <sup>2</sup> (if known)		
<i>an</i>		4,916,193		Tang, et al.	04-10-1990
		4,925,677		Feljen	05-15-1990
		4,931,279		Bawa, et al.	06-05-1990
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		Application Number  <div style="font-size: 1.5em; font-family: cursive;">10/607,247</div>	Continuation of 69/594,896
Filing Date June 25, 2003		First Named Inventor Jeffrey A. Hubbell	
Group Art Unit		Examiner Name	
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U.S. PATENT DOCUMENTS					
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		Number	Kind Code <sup>2</sup> (if known)		
		5,271,961		Mathiowitz, et al.	12-21-1993
		5,278,201		Dunn, et al.	01-11-1994
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		5,288,495		Batch, et al.	02-15-1994
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		5,410,016		Hubbell, et al.	04-25-1995
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		5,834,274		Hubbell et al.	11-10-1998
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 6 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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aw		ALTMAN, et al., "Long-term plasma glucose normalization in experimental diabetic rats with microencapsulated implants of benign human insulinomas," <i>Diabetes</i> 35:625-33 (1986).	
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OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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am		DARQUY, et al., "Immunolocalization of pancreatic cells by microencapsulation - an <i>in vitro</i> study," <i>Diabetologia</i> 28:776-80 (1985).	
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Substitute for form 1449A/PTO		Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Continuation 109/694,836  10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 8 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
aw		DUPUY, et al., "In Situ Polymerization of a Microencapsulating Medium Round Living Cells," <i>J. of Biomedical Materials Res.</i> 22:1061-70 (1988).	
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aw		FUKUI, et al., "Entrapment of biocatalysts with photo-cross-linkable resin prepolymers and urethane resin prepolymers," <i>Methods in Enzymology</i> 135:230-53 (1987).	

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	11/21/03

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 9 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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gm		FUKUI, et al., "Several novel methods for immobilization of enzymes microbial cells and organelles," <i>Biochimie</i> 62:381-86 (1980).	
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		GIN, et al., "Agarose encapsulation of islets of langerhans: Reduced toxicity <i>in vitro</i> ," <i>J. Microencapsulation</i> 4:239-42 (1987).	
		GOLANDER, et al., "Preparation and protein adsorption properties of photopolymerized hydrophilic films containing N-vinylpyrrolidone (NVP), acrylic acid (AA) or ethyleneoxide (EO) units as studied by ESCA," <i>Colloids and Surfaces</i> 21:149-65 (1986).	
		GOLDBERG, et al., "An evaluation of the gore-tex surgical membrane for the prevention of postoperative peritoneal adhesion," <i>Obstetrics and Gynecology</i> 70(6):848-48 (1987).	
gm		GOMBOTZ, et al., "Immobilization of poly(ethylene oxide) on poly(ethylene terephthalate) using a plasma polymerization process," <i>J. of Applied Polymer Science</i> 37:91-107 (1989).	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Continuation of 69494,838-  10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 10 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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em		GOOSEN, et al., "Optimization of microencapsulation parameters: Semipermeable microcapsules as a bioartificial pancreas," <i>Biotechnology and Bioengineering</i> 27:148-50 (1985).	
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	1/22/06

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 11 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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am		HUFFMAN, et al., "Effect of carboxyl and groups on hydrolysis of polyglycolic acid," <i>J. Polymer Science, Polymer Chemistry Edition</i> 23:1939-1951 (1985).	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Applicati n Number	Continuation of <del>10/607,247</del> <b>10/607,247</b>
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 12 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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ou		KENLEY, et al., "Poly(lactide-co-glycolide) decomposition kinetics <i>in vivo</i> and <i>in vitro</i> ," <i>Macromolecules</i> 20:2398-2403 (1987).	
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		KULKARNI, et al., "Polylactic acid for surgical implants," <i>Arch. Surg.</i> 83-841-45 (1966).	
		KUMAKURA, et al., "Immobilization of microbial cells in membrane form by radiation-induced cast-polymerization," <i>Die Angewandte Makromol. Chem.</i> 115:75-88 (1986).	
an		LACY, et al., "Maintenance of normoglycemia in diabetic mice by subcutaneous xenografts of encapsulated islets," <i>Science</i> 254:1782-84 (1991).	

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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Sheet 13 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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am		LAMBERTI, et al., "Microencapsulation of mammalian cells in polyacrylates," <i>Applied Biochemistry and Biotechnology</i> 10:101-05 (1984).	
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		LIM, et al., "Microencapsulated islets as bioartificial endocrine pancreas," <i>Science</i> 210:908-10 (1980).	
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		LIPATOYA, "Medical polymer adhesives," <i>Advances in Polym. Sci.</i> 79:85-92 (1986).	
		MAECHLING-STRESSER, et al., "Peadsorption of polymers on glass and silica to reduce fibrinogen adsorption," <i>J. of Biomedical Materials Research</i> 23:1385-93 (1989).	
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Sheet	14	of	20

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am		McMAHON, et al., "Feasibility of cellular microencapsulation technology for evaluation of anti-human immunodeficiency virus drug in vivo," <i>J. Nat. Cancer Inst.</i> 82(22):1761-65 (1990).	
		MENZIES, et al., "The role of plasminogen activator in adhesion prevention," <i>Surgery Gynecology and Obstetr.</i> 172:362-66 (1991).	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Continuation of <del>100/684,838</del>  10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 15 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
om		NOJIRI, et al., "In Vivo protein adsorption onto polymers: A transmission electron microscopic study," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 35:357-61 (1989).	
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
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du		PITT, et al., "Aliphatic polyesters. I. The degradation of Poly( $\epsilon$ -caprolactone) <i>in vivo</i> ," <i>J. Applied Polymer Science</i> 26:3776-87 (1981).	
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
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an		SAWHNEY, et al., "Poly(ethylene oxide)-graft-poly(L-lysine) copolymers to enhance the biocompatibility of poly(L-lysine)-alginate microcapsule membranes," <i>Biomaterials</i> 13(12):863-870 (1992).	
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		SPECKHARD, et al., "Properties of UV-curable polyurethane acrylates: Effect of reactive diluent," <i>J. Appl. Poly. Sci.</i> 30(2):847-66 (1985).	
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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Sheet 18 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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en		STEVENSON, et al., "Microencapsulation of mammalian cells in a hydroxyethyl methacrylate-methyl methacrylate copolymer: Preliminary development," <i>Biomater. Art. Cells</i> 16:747-69 (1988).	
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		THOMAS, ed., "Lumen," in <i>Taber's Cyclopedic Medical Dictionary</i> , 12 <sup>th</sup> Edition (F.A. Davis Company, Philadelphia) (1973).	
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en		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):568-70 (1990).	

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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Sheet 19 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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am		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):563-67 (1991).	
		VAN NEERBOS, "Parameters in UV curable materials which influence cure speed," <i>J. Oil Col. Chem. Assoc.</i> 61(1):241-50 (1978).	
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		WUJEK, et al., "A carbohydrate polymer that effectively prevents epidural fibrosis at laminectomy sites in the rat," <i>Exp. Neurology</i> 114:237-45 (1991).	
		ZHU, et al., "Preparation and properties of D,L-lactide and ethylene oxide copolymer: A modifying biodegradable polymeric material," <i>J. Polymer Sci. Part C: Polymer Letters</i> 24:331-37 (1986).	
am		ZHU, et al., "Preparation characterization and properties of polylactide (PLA)- Poly(ethylene Glycol) (PEG) copolymers: A potential drug carrier," <i>J. Applied Sci.</i> 39:1-9 (1990).	

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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an		ZHU, et al., "Super microcapsules" (SMC), I. Preparation and Characterization of Star Polyethylene Oxide (PEO)-Polylactide (PLA) Copolymers, J. Polymer Sci.: Part A: Polymer Chemistry 27:2151-59 (1989).	

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